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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,689	10/18/2005	Stephanie M. Whited	63126A	2018
22272	35503 7590 03/22/2007 UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY EXAMINER			
CORPORATION P.O. BOX 1967 MIDLAND, MI 48641-1967			LU, C CAIXIA	
			ART UNIT	PAPER NUMBER
•		1713		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	03/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/553,689	WHITED ET AL.	
Office Action Summary	Examiner	Art Unit	
	Caixia Lu	1713	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may not will apply and will expire SIX (6) Mo tute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☑ The since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal ma	•	erits is
Disposition of Claims			
4) ☐ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a subjection and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the subject to by the subject of the sub	ccepted or b) objected to be drawing(s) be held in abey ection is required if the drawin	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in iority documents have bee au (PCT Rule 17.2(a)).	Application No In received in this National Sta	ge
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/15/05.	Paper No	v Summary (PTO-413) b(s)/Mail Date f Informal Patent Application 	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 3 of claim 4, the term "and" should be replaced with --or-- because R" group should be the members in the selective group in alternatives only.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors

Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology

Technical Amendments Act of 2002 do not apply when the reference is a U.S.

patent resulting directly or indirectly from an international application filed before

November 29, 2000. Therefore, the prior art date of the reference is determined

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under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Jorgensen (6,617,405).

Jorgensen teaches a gas phase ethylene polymerization process in a fluid bed reactor system in the presence of spray dried Ziegler catalyst prepared by (i) mixing magnesium and titanium tetrachloride in THF to provide a catalyst precursor solution, (ii) adding silica filler to the catalyst precursor solution to form a slurry, (iii) spray drying the catalyst precursor slurry in nitrogen gas at temperature ranging from 140 to 100 °C to provide discrete catalyst precursor particles, (iv) mixing the discrete catalyst precursor particles in mineral oil, and (v) activating the catalyst precursor particles with tri-n-hexylaluminum in mineral oil before introducing the catalyst to the gas phase reactor, and (vi) conducting ethylene polymerization in the gas phase reactor (col. 3, lines 8-42; col. 6, lines 15-63; col. 11, line 10 to col. 12, line 13; and Examples 1-5).

Jorgensen's teaching meets all of the limitations of the instant claims.

5. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Jorgensen et al. (6,187,866)

Analogous rejections as shown above are also applied to Jorgensen et al. (6,187,866); see at least col. 2, line 65 to col. 3, line 32, col. 6, lines 29-50, col. 7, lines 16-20, and Examples 1-8.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The fax numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.

Caixia Lu, Ph. D. Primary Examiner